## In the Claims

Please amend claims 10, 13, 14, 18,19, 21, 23, 27 and 28 as follows:

1-9.	(Canceled.)

1 10. (Currently Amended) An apparatus for selectively forming a silicide comprising:

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a semiconductor substrate having a surface, a portion of said surface having silicon thereon and a portion of said surface having an insulator thereon, said surface further having an oxide thereover;

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a mainframe housing chamber comprising a plurality of at least an interior cleaning chambers, at least one interior chamber adapted to remove for removing said oxide from said surface of said substrate while under a continuous vacuum, and at least onean interior deposition chamber adapted to deposit for depositing a metal on said surface of said substrate while under said continuous vacuum;

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at least one workpiece holder within said <u>mainframe</u> chamber-adapted to hold said substrate;

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at least one pump adapted to evacuate said <u>mainframe\_chamber\_to\_maintain</u> said continuous vacuum in said <u>mainframechamber</u>;

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16	at	least one line operatively connected between said at least one pump and
1 <i>7</i>		said mainframe chamber for evacuating said mainframe chamber;
18	at	least one input line adapted to provide a chemical agent into said interior
19		cleaning chamber within said mainframe while inunder said continuous
20	1	vacuum, said chemical agent adapted to remove said oxide from said
21		surface of said substrate;
22	at	least one output line adapted to remove said cleaning agent and said
28		removed oxide from said interior cleaning chamber and said mainframe;
24	a	reactor in said deposition chamber within said mainframe, said reactor
25	i	adapted to deposit said metal onto said silicon and insulator portions on
26		said substrate surface while <u>underin</u> said continuous vacuum;
27	a l	heating element, said heating element adapted to heat said substrate to an
28	Y	elevated temperature to form a silicide on said substrate surface over the
29	(m)	silicon portion by reaction with the metal deposited thereon, while the
30		metal remains unreacted over the insulator portion; and
31	an	etchant to remove unreacted metal from the substrate surface while leaving
32		said silicide over portions of said semiconductor substrate.
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1	11.	(Canceled.)
1	12.	(Canceled.)

1 13. (Currently Amended) The apparatus of claim 10 further comprising at least
2 onean interior heating chamber within said mainframe for heating adapted to heat
3 said substrate to form said silicide on said substrate surface.

14. (Currently Amended) The apparatus of claim 1310 wherein said apparatus is adapted to transfer said substrate between said interior cleaning chamber adapted to remove said oxide from said surface of said substrate and said interior deposition chamber adapted to deposit said metal on said surface of said substrate without breaking said continuous vacuum.

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15. (Original) The apparatus of claim 14 wherein said substrate is a silicon substrate.

- 1 16. (Original) The apparatus of claim 15 wherein said apparatus is adapted to remove said oxide from said surface of said substrate using a nitrogen triflouride cleaning process.
- 1 17. (Original) The apparatus of claim 16 wherein said metal is cobalt.

1	18. (Currently Amended) The apparatus of claim 17 wherein said interior
2	deposition chamber adapted to deposit said metal on said surface of said substrate
3	is a vapor sputtering device.
1	19. (Currently Amended) The apparatus of claim 18 wherein said apparatus is
2	further adapted to transfer said substrate to said interior heating chamber from said
3	interior metal deposition chamber.
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1	20. (Original) The apparatus of claim 19 wherein said silicide is cobalt silicide.
1	21. (Currently Amended) A system for selectively forming a silicide on a
∤ <sup>2</sup>	surface of a semiconductor substrate comprising:
) 3	said semiconductor substrate having said surface, a portion of said surface
4	having silicon thereon and a portion of said surface having an insulator
5	thereon, said surface further having an oxide thereover;
6	a chamber mainframe comprising a plurality of at least an interior chambers, at
7	least one interior-cleaning chamber adapted to remove said oxide from said
8	surface of said substrate while under a continuous vacuum, and at least <del>one</del>
9	an interior deposition chamber adapted to deposit a metal on said surface
10	of said substrate while under said continuous vacuum;

11	at least one pump adapted to evacuate said mainframe chamber to maintain
12	said continuous vacuum in said mainframechamber;
13	a chemical agent input into said interior cleaning chamber within said
14	mainframe, said chemical agent for removing adapted to remove said oxide
15	from said surface of said substrate while said chamber is under said
16	continuous vacuum;
17	a reactor in said <u>deposition</u> chamber <u>within said mainframe</u> , said reactor <u>for</u>
18	depositingadapted to deposit said metal onto said silicon and insulator
19	portions on said substrate surface while under said continuous vacuum;
20	a heating element, said heating element adapted to heat said substrate to an
21	elevated temperature to form a silicide on said substrate surface over the
22	silicon portion by reaction with the metal deposited thereon, while the
23	metal remains unreacted over the insulator portion; and
24	an etchant to remove unreacted metal from the substrate surface while leaving
25	said silicide over portions of said semiconductor substrate.
1	22. (Canceled.)
1	23. (Currently Amended) The system of claim 21 wherein said apparatus is
2	adapted to transfer said substrate between said interior <u>cleaning</u> chamber <del>adapted</del>
3	to remove said oxide from said surface of said substrate and said interior

- 4 <u>deposition</u> chamber <del>adapted to deposit said metal on said surface of said substrate</del>
- 5 without breaking said continuous vacuum.
- 1 24. (Previously Added) The system of claim 21 wherein said metal is cobalt.
- 1 25. (Previously Added) The system of claim 21 wherein said chemical agent is
- 2 selected from the group consisting of nitrogen triflouride and argon.
- 1 26. (Previously Added) The system of claim 21 wherein said reactor for
- depositing said metal on said surface of said substrate is a vapor sputtering device.
  - 27. (Currently Amended) The system of claim 21 wherein said heating element is enhoused resides within said mainframechamber.
- 1 28. (Currently Amended) The system of claim 21 wherein said heating element
- 2 is external thereto said <u>mainframechamber</u>.
- 1 29. (Previously Added) The system of claim 21 wherein said unreacted cobalt
- is removed using an etchant comprising hydrogen peroxide and sulfuric acid.
- 1 30. (Canceled.)

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